

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P455918

Luminaire Tested: **GLAN-SA7A-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20184 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

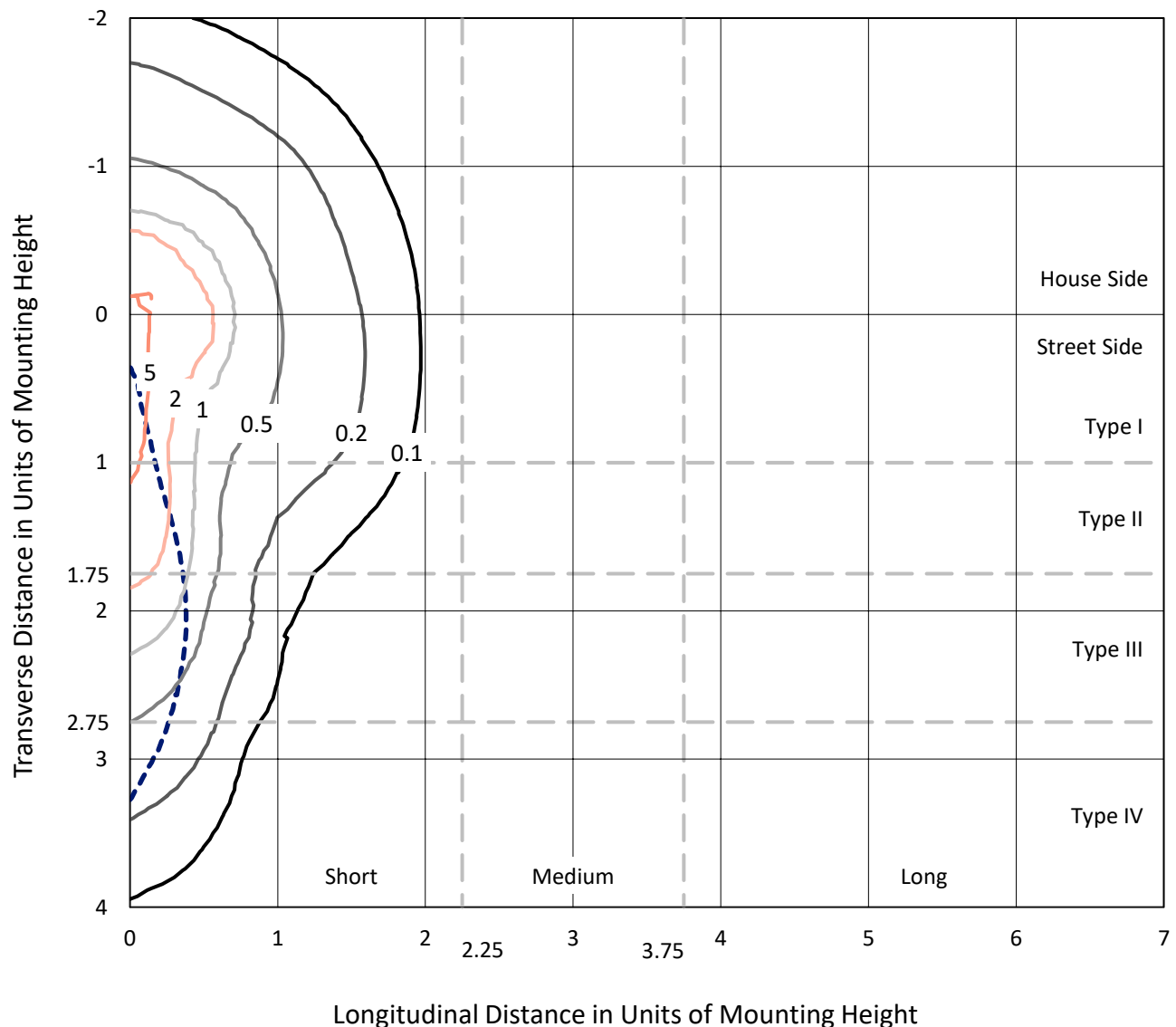


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



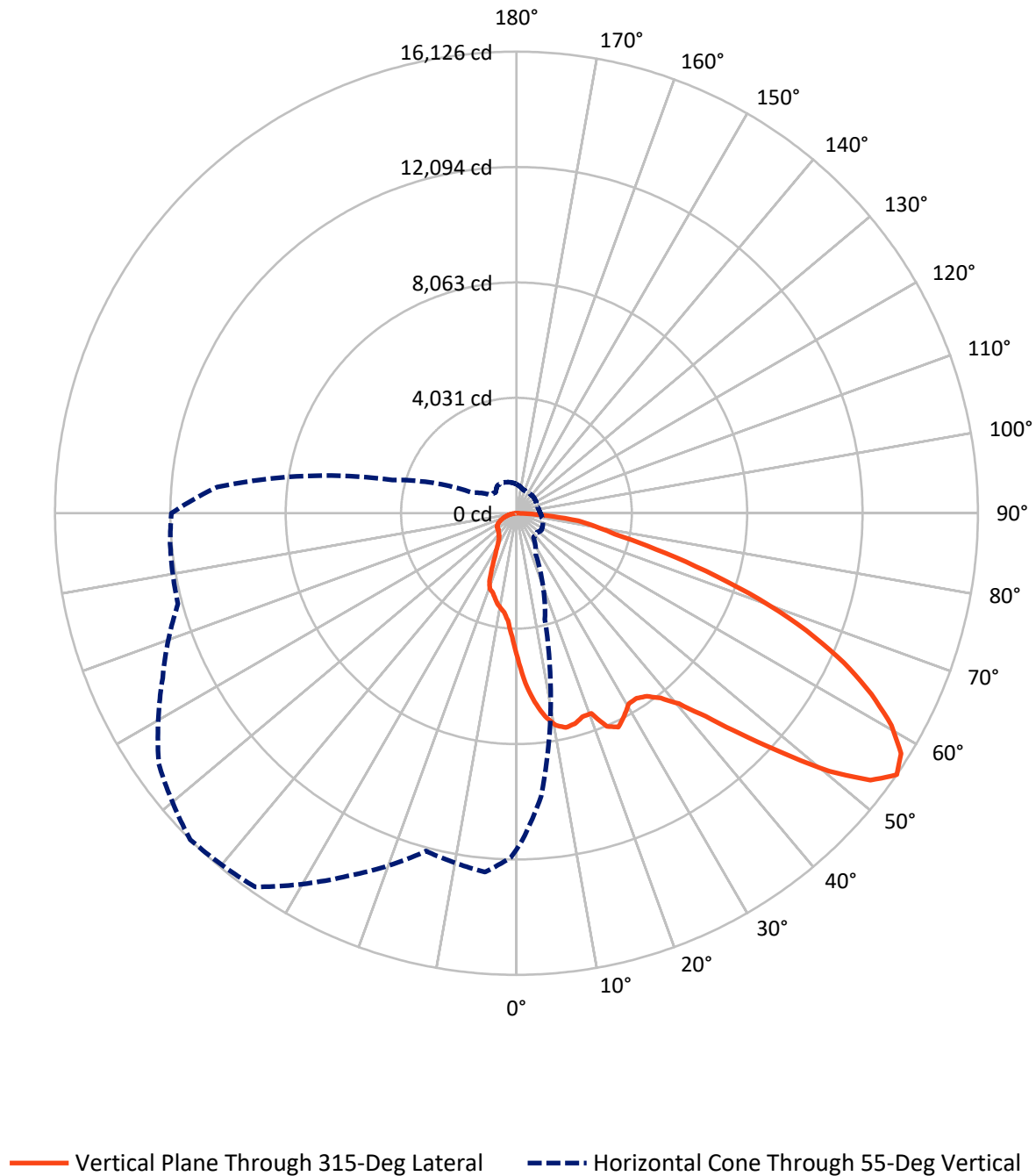
Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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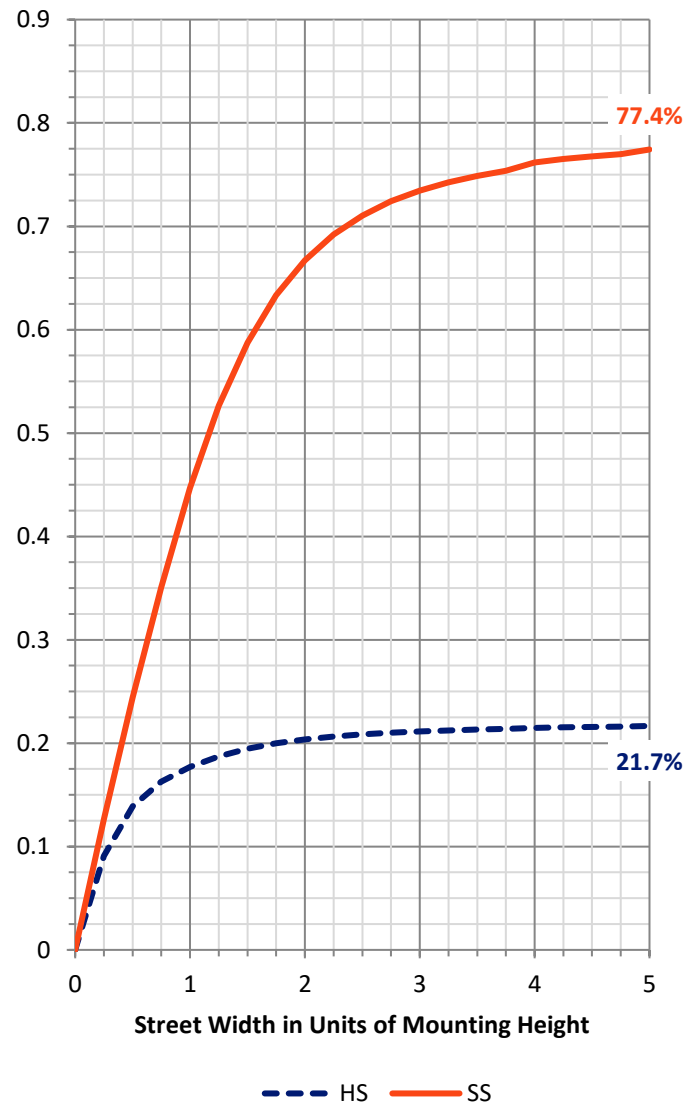
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4415.1	0.0	4415.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15768.8	0.0	15768.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	20184.0	0.0	20184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	2.1
10°-20°	1139.0	5.6
20°-30°	1967.6	9.7
30°-40°	2286.7	11.3
40°-50°	3190.4	15.8
50°-60°	4329.0	21.4
60°-70°	4118.5	20.4
70°-80°	2224.9	11.0
80°-90°	498.6	2.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20184.0	100.0
0°-180°	20184.0	100.0

Coefficient of Utilization



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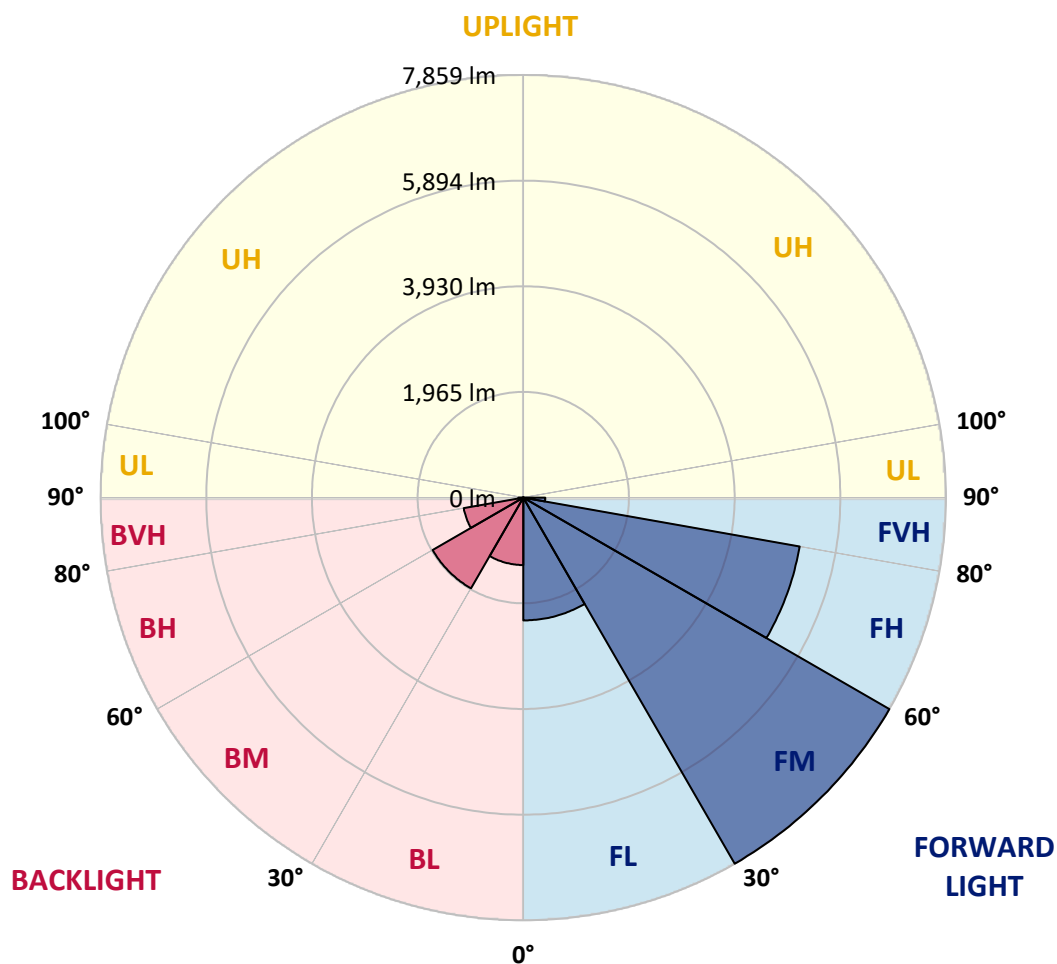
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2282.9	11.3			
FM	(30°-60°)	7859.2	38.9			
FH	(60°-80°)	5219.2	25.9			G3/7500
FVH	(80°-90°)	407.5	2.0			G3/500
BL	(0°-30°)	1253.0	6.2	B3/2500		
BM	(30°-60°)	1946.8	9.6	B2/2500		
BH	(60°-80°)	1124.2	5.6	B3/2500		G3/2500
BVH	(80°-90°)	91.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4
2.5°	5627.3	5606.0	5546.1	5389.0	5230.5	5069.4	4945.6	4791.1	4630.0	4543.4	4432.9
5°	5704.6	5680.6	5539.4	5185.2	4864.3	4527.4	4258.4	4022.8	3926.9	3785.7	3672.5
7.5°	5523.5	5512.8	5301.1	4792.4	4353.0	3912.2	3607.3	3418.2	3246.4	3182.5	3195.8
10°	5358.3	5315.7	5050.7	4386.3	3873.6	3515.4	3297.0	3111.9	2990.8	2958.8	2965.5
12.5°	5221.2	5163.9	4851.0	4113.3	3664.6	3378.3	3100.0	2906.9	2796.4	2827.0	2930.8
15°	5193.2	5116.0	4767.1	4020.1	3550.0	3181.2	2876.2	2653.9	2571.3	2637.9	2804.3
17.5°	5374.3	5277.1	4910.9	4050.7	3440.8	2980.1	2605.9	2351.6	2282.4	2388.9	2605.9
20°	5956.2	5812.4	5359.7	4227.8	3430.2	2880.2	2448.8	2193.1	2222.4	2424.8	2651.2
22.5°	7032.2	6816.4	6145.3	4486.2	3486.1	2854.9	2416.8	2283.7	2444.8	2616.6	2765.7
25°	7245.2	7076.1	6286.5	4544.7	3474.1	2837.6	2507.4	2574.0	2753.7	2839.0	2787.0
27.5°	7365.1	7172.0	6277.1	4254.5	3106.6	2574.0	2396.9	2507.4	2552.7	2470.1	2329.0
30°	7644.7	7443.6	6435.6	3949.5	2558.0	1909.5	1673.8	1628.5	1659.2	1675.1	1624.5
32.5°	8029.5	7831.1	6733.9	3749.8	2211.8	1579.3	1347.6	1283.7	1269.0	1251.7	1231.7
35°	8527.5	8222.6	7026.8	3621.9	2069.3	1460.8	1247.7	1198.4	1178.5	1154.5	1133.2
37.5°	9033.6	8714.0	7397.0	3487.5	1974.8	1378.2	1181.1	1158.5	1123.9	1098.6	1067.9
40°	9571.5	9213.3	7733.9	3370.3	1882.9	1324.9	1133.2	1130.5	1085.3	1056.0	1020.0
42.5°	10037.6	9668.7	8034.9	3298.4	1812.3	1269.0	1103.9	1111.9	1065.3	1021.3	974.7
45°	10407.8	10045.6	8313.2	3298.4	1755.0	1213.1	1098.6	1093.2	1046.6	992.0	938.8
47.5°	10732.7	10358.5	8584.8	3382.3	1719.1	1166.5	1069.3	1078.6	1030.7	961.4	909.5
50°	10984.3	10654.1	8951.0	3512.8	1683.1	1129.2	1032.0	1082.6	1017.3	945.4	885.5
52.5°	11305.3	11009.6	9391.8	3691.2	1652.5	1087.9	998.7	1082.6	1016.0	946.8	881.5
55°	11750.0	11438.4	9923.1	3839.0	1603.2	1049.3	969.4	1052.0	1012.0	940.1	870.9
57.5°	12061.6	11828.6	10298.6	3937.5	1532.7	1000.0	942.8	1022.7	994.7	914.8	838.9
58°	12076.3	11848.6	10353.2	3960.2	1515.4	990.7	936.1	1009.4	986.7	904.2	828.3
60°	11908.5	11712.7	10363.8	3928.2	1416.8	944.1	901.5	954.8	944.1	841.6	771.0
62.5°	11298.6	11089.5	9933.7	3668.6	1286.3	886.8	848.2	881.5	857.5	753.7	688.4
65°	10431.7	10046.9	9049.5	3261.1	1193.1	825.6	776.3	779.0	753.7	679.1	621.9
67.5°	9277.2	8847.1	7662.0	2748.4	1122.5	757.7	691.1	684.4	653.8	605.9	559.3
70°	7856.4	7562.1	6226.5	2235.8	1044.0	683.1	595.2	591.2	572.6	536.6	495.4
72.5°	6367.7	5993.5	5028.1	1789.7	948.1	611.2	506.0	514.0	490.0	464.7	427.4
75°	4699.2	4454.2	3886.9	1435.5	818.9	532.6	422.1	424.8	414.1	387.5	358.2
77.5°	3094.6	3021.4	2780.4	942.8	629.8	423.4	344.9	347.5	339.6	315.6	285.0
80°	2082.6	2033.3	1884.2	607.2	420.8	306.3	266.3	269.0	267.7	242.4	201.1
82.5°	1283.7	1262.4	1214.4	410.1	291.6	219.7	175.8	183.8	198.4	170.4	137.2
85°	605.9	607.2	733.7	223.7	171.8	141.1	95.9	102.5	102.5	102.5	77.2
87.5°	78.6	82.6	101.2	94.5	62.6	53.3	34.6	29.3	25.3	33.3	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4
2.5°	4394.3	4367.6	4310.4	4297.1	4289.1	4311.7	4251.8	4267.8	4241.1	4315.7	4303.7
5°	3679.2	3681.9	3728.5	3759.1	3769.8	3759.1	3719.2	3649.9	3596.6	3575.3	3580.7
7.5°	3170.5	3217.1	3297.0	3386.3	3467.5	3491.4	3468.8	3337.0	3193.2	3102.6	3073.3
10°	3001.4	3064.0	3155.9	3226.5	3298.4	3355.6	3367.6	3265.1	3094.6	2880.2	2796.4
12.5°	3010.7	3096.0	3183.8	3206.5	3199.8	3222.5	3211.8	3194.5	3082.6	2809.7	2669.9
15°	2922.9	3024.1	3085.3	3073.3	3052.0	3032.0	3004.1	2960.1	2920.2	2728.4	2574.0
17.5°	2720.5	2824.3	2874.9	2878.9	2878.9	2873.6	2805.7	2789.7	2784.4	2691.2	2596.6
20°	2757.7	2815.0	2792.4	2755.1	2765.7	2801.7	2761.7	2753.7	2784.4	2825.6	2808.3
22.5°	2779.0	2759.1	2588.6	2423.5	2386.2	2498.1	2520.7	2609.9	2733.8	2882.9	2980.1
25°	2647.2	2486.1	2181.2	1994.7	1889.5	1993.4	2129.2	2294.3	2479.4	2671.2	2784.4
27.5°	2213.1	2090.6	1872.2	1704.4	1612.6	1628.5	1744.4	1894.9	2066.6	2195.8	2278.4
30°	1667.2	1612.6	1499.4	1442.1	1386.2	1372.9	1422.1	1479.4	1555.3	1571.3	1592.6
32.5°	1227.7	1219.7	1226.4	1207.8	1197.1	1195.8	1181.1	1194.4	1202.4	1211.8	1193.1
35°	1110.6	1099.9	1081.3	1075.9	1069.3	1071.9	1065.3	1058.6	1063.9	1071.9	1077.3
37.5°	1050.6	1034.7	1008.0	998.7	998.7	1002.7	992.0	989.4	998.7	1024.0	1037.3
40°	1004.0	985.4	954.8	942.8	950.8	961.4	946.8	941.4	964.1	990.7	1012.0
42.5°	960.1	945.4	916.1	902.8	909.5	929.5	908.1	904.2	933.4	962.7	988.0
45°	922.8	908.1	881.5	874.9	877.5	896.2	881.5	881.5	909.5	941.4	964.1
47.5°	893.5	874.9	857.5	852.2	854.9	865.5	862.9	862.9	889.5	922.8	945.4
50°	864.2	848.2	825.6	828.3	834.9	849.6	848.2	852.2	878.9	920.1	944.1
52.5°	850.9	826.9	801.6	804.3	824.3	841.6	836.2	840.2	870.9	948.1	982.7
55°	836.2	804.3	775.0	779.0	801.6	826.9	820.3	825.6	861.5	966.7	1014.7
57.5°	808.3	771.0	739.0	741.7	775.0	801.6	791.0	797.6	840.2	946.8	997.4
58°	796.3	764.3	733.7	735.0	767.0	796.3	784.3	789.6	833.6	941.4	989.4
60°	745.7	727.1	700.4	701.8	732.4	757.7	751.0	756.3	799.0	902.8	938.8
62.5°	676.5	665.8	659.1	659.1	677.8	701.8	708.4	715.1	753.7	816.3	848.2
65°	601.9	601.9	603.2	603.2	615.2	645.8	649.8	667.1	703.1	733.7	757.7
67.5°	551.3	548.6	551.3	544.6	549.9	568.6	588.6	604.5	641.8	663.1	671.1
70°	486.0	484.7	486.0	476.7	483.4	499.3	512.7	539.3	577.9	593.9	597.9
72.5°	422.1	422.1	424.8	418.1	418.1	435.4	444.8	474.0	510.0	519.3	520.7
75°	355.5	359.5	359.5	350.2	352.9	363.5	375.5	399.5	432.8	439.4	439.4
77.5°	282.3	296.9	296.9	287.6	291.6	293.0	308.9	320.9	346.2	348.9	338.2
80°	205.1	219.7	231.7	223.7	230.4	222.4	231.7	239.7	265.0	253.0	235.7
82.5°	146.5	157.1	166.4	167.8	161.1	146.5	158.5	159.8	171.8	155.8	146.5
85°	81.2	90.5	102.5	97.2	86.6	77.2	81.2	83.9	82.6	78.6	73.2
87.5°	21.3	22.6	25.3	18.6	17.3	14.6	20.0	20.0	22.6	24.0	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4
2.5°	4313.0	4371.6	4498.1	4594.0	4711.2	4853.7	5021.5	5190.6	5373.0	5430.3	5510.1
5°	3568.7	3715.2	3776.4	3950.8	4124.0	4383.6	4660.6	4981.5	5333.0	5502.2	5664.6
7.5°	3049.4	3127.9	3191.8	3319.7	3527.4	3843.0	4190.5	4591.3	5089.4	5335.7	5574.1
10°	2769.7	2777.7	2856.3	3014.7	3195.8	3474.1	3803.0	4251.8	4807.1	5106.7	5386.3
12.5°	2584.6	2550.0	2635.2	2800.3	3005.4	3262.4	3564.7	3992.1	4603.3	4910.9	5249.2
15°	2422.2	2367.6	2431.5	2600.6	2803.0	3105.3	3430.2	3882.9	4523.4	4881.6	5257.1
17.5°	2426.2	2275.7	2298.3	2440.8	2641.9	2949.5	3343.6	3878.9	4644.6	5057.4	5502.2
20°	2725.8	2484.8	2382.2	2408.9	2603.3	2938.8	3383.6	4065.4	5042.8	5644.6	6120.0
22.5°	3020.1	2874.9	2709.8	2655.2	2761.7	3113.3	3637.9	4506.1	5908.3	6815.1	7674.0
25°	2917.5	3041.4	3000.1	2922.9	2946.8	3238.4	3811.0	4868.3	6580.8	7602.1	8409.0
27.5°	2334.3	2559.3	2604.6	2603.3	2612.6	2852.3	3427.5	4624.6	6664.6	7752.6	8523.6
30°	1640.5	1660.5	1684.5	1731.1	1773.7	1988.1	2681.8	4060.0	6627.4	7820.5	8592.8
32.5°	1183.8	1210.4	1243.7	1307.6	1408.8	1681.8	2346.3	3880.3	6824.4	8101.4	8795.2
35°	1082.6	1113.2	1145.2	1218.4	1314.3	1567.3	2213.1	3805.7	7148.0	8556.8	9158.7
37.5°	1050.6	1085.3	1113.2	1166.5	1243.7	1484.7	2091.9	3755.1	7479.6	9038.9	9646.1
40°	1028.0	1067.9	1090.6	1133.2	1186.5	1408.8	1984.1	3715.2	7800.5	9479.6	10037.6
42.5°	1008.0	1049.3	1078.6	1109.2	1153.2	1340.9	1888.2	3675.2	8078.8	9907.1	10427.7
45°	984.1	1036.0	1073.3	1097.2	1135.9	1283.7	1815.0	3643.2	8395.7	10286.6	10821.9
47.5°	964.1	1021.3	1067.9	1095.9	1110.6	1243.7	1756.4	3687.2	8776.6	10683.4	11188.1
50°	965.4	1020.0	1078.6	1122.5	1083.9	1210.4	1720.4	3861.6	9271.9	11154.8	11477.0
52.5°	1008.0	1074.6	1121.2	1131.9	1046.6	1170.5	1701.8	4166.6	9857.8	11571.6	11768.7
55°	1056.0	1125.2	1175.8	1169.1	1026.7	1119.9	1697.8	4491.5	10499.6	12057.6	12148.2
57.5°	1038.6	1139.8	1217.1	1182.5	1028.0	1070.6	1680.5	4753.8	11036.3	12421.1	12523.7
58°	1033.3	1134.5	1222.4	1179.8	1024.0	1056.0	1676.5	4776.4	11110.8	12446.4	12576.9
60°	981.4	1087.9	1218.4	1159.8	1001.4	1016.0	1632.5	4849.7	11090.9	12315.9	12608.9
62.5°	886.8	974.7	1126.5	1062.6	932.1	962.7	1534.0	4759.1	10550.2	11687.4	12141.5
65°	780.3	845.6	946.8	934.8	833.6	908.1	1399.5	4400.9	9467.7	10667.4	11145.5
67.5°	700.4	753.7	817.6	800.3	749.7	834.9	1254.4	3795.1	8253.2	9442.4	10044.2
70°	619.2	660.5	692.4	680.4	664.5	763.0	1125.2	3080.0	7089.4	8278.5	8861.8
72.5°	536.6	575.2	601.9	584.6	575.2	687.1	1020.0	2390.2	5599.4	6829.8	7579.5
75°	448.7	487.4	506.0	486.0	480.7	605.9	864.2	1785.7	4201.2	5265.1	5912.3
77.5°	347.5	388.8	412.8	406.1	408.8	498.0	697.8	1222.4	3004.1	3588.7	4270.4
80°	243.7	289.0	304.9	298.3	316.9	379.5	492.7	776.3	2072.0	2329.0	2809.7
82.5°	150.5	193.1	195.7	202.4	215.7	281.0	371.5	472.7	1301.0	1344.9	1693.8
85°	75.9	91.9	98.5	109.2	121.2	171.8	211.7	293.0	837.6	633.8	946.8
87.5°	25.3	26.6	32.0	39.9	49.3	70.6	90.5	119.8	207.7	114.5	293.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455918

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4	5065.4
2.5°	5671.3	5784.5	5867.0	5942.9	5869.7	5863.0	5791.1	5675.3	5627.3	5627.3
5°	6005.5	6270.5	6484.9	6622.0	6563.4	6422.3	6189.3	5892.3	5732.5	5704.6
7.5°	6097.4	6620.7	7018.8	7160.0	7061.5	6749.9	6303.8	5803.1	5574.1	5523.5
10°	6041.5	6721.9	7306.5	7530.2	7393.0	6921.6	6313.1	5699.2	5416.9	5358.3
12.5°	5982.9	6735.2	7359.7	7683.3	7594.1	7060.1	6381.0	5631.3	5305.1	5221.2
15°	6025.5	6740.5	7294.5	7628.7	7686.0	7226.6	6492.9	5680.6	5282.4	5193.2
17.5°	6294.5	6841.7	7201.3	7471.6	7672.7	7452.9	6811.1	5916.3	5484.8	5374.3
20°	6856.4	7084.1	7254.5	7463.6	7787.2	7915.0	7462.3	6563.4	6053.4	5956.2
22.5°	8483.6	8442.3	8093.4	8089.5	8558.2	9070.8	9040.2	7879.1	7112.1	7032.2
25°	9093.5	8901.7	8397.1	8274.5	8480.9	9271.9	9157.4	8148.0	7439.6	7245.2
27.5°	8855.1	8379.7	8048.2	8020.2	7952.3	8699.3	8975.0	8257.2	7554.2	7365.1
30°	8840.5	8141.4	7667.3	7723.3	7788.5	8502.2	9076.2	8599.5	7847.1	7644.7
32.5°	8876.4	8174.7	7695.3	7706.0	7900.4	8531.5	9188.0	8972.3	8231.9	8029.5
35°	9021.6	8363.8	7873.7	7848.4	8152.0	8723.3	9378.4	9558.2	8757.9	8527.5
37.5°	9255.9	8740.6	8200.0	8193.3	8634.1	9069.5	9615.5	10149.4	9281.2	9033.6
40°	9600.8	9181.4	8780.6	8744.6	9289.2	9632.8	9923.1	10779.3	9889.8	9571.5
42.5°	10017.6	9710.0	9546.2	9688.7	10212.0	10265.3	10402.4	11361.2	10407.8	10037.6
45°	10403.8	10389.1	10616.8	10995.0	11299.9	10980.4	10903.1	11751.3	10809.9	10407.8
47.5°	10863.2	11260.0	11947.1	12501.0	12820.6	11812.6	11330.6	12005.7	11102.9	10732.7
50°	11329.2	12302.6	13399.9	14172.2	14240.1	12716.8	11624.8	12245.4	11369.2	10984.3
52.5°	11819.3	13134.9	14595.6	15493.1	15361.3	13503.7	11909.8	12407.8	11643.5	11305.3
55°	12245.4	13644.9	15264.1	16125.6	15932.6	13983.1	12217.4	12583.6	12035.0	11750.0
57.5°	12483.7	13687.5	15097.6	15850.0	15640.9	13889.9	12358.6	12714.1	12285.3	12061.6
58°	12518.3	13630.2	14949.8	15690.2	15477.2	13811.3	12357.2	12708.8	12301.3	12076.3
60°	12487.7	13258.7	14399.9	15059.0	14835.3	13318.6	12306.6	12608.9	12098.9	11908.5
62.5°	12204.1	12614.2	13450.5	13929.8	13865.9	12549.0	12098.9	12232.1	11482.4	11298.6
65°	11831.2	11735.4	12234.7	12574.3	12622.2	11972.4	11892.5	11417.1	10691.4	10431.7
67.5°	11378.5	10739.3	10738.0	10931.1	11011.0	11085.5	11462.4	10531.6	9551.5	9277.2
70°	10610.2	9204.0	8780.6	9008.3	8941.7	9571.5	10694.1	9287.9	8177.3	7856.4
72.5°	9201.3	7303.8	6626.0	6919.0	6751.2	7506.2	9357.1	7643.4	6761.9	6367.7
75°	7458.3	5463.5	4764.5	5033.4	4929.6	5693.9	7785.8	5551.4	4849.7	4699.2
77.5°	5791.1	3958.8	3552.7	3515.4	3592.6	4237.1	5711.2	3748.4	3197.2	3094.6
80°	3720.5	2833.6	2857.6	2809.7	2849.6	2671.2	3467.5	2391.5	2165.2	2082.6
82.5°	2448.8	1974.8	2354.3	2173.2	2064.0	1796.3	2274.4	1566.0	1328.9	1283.7
85°	1668.5	1454.1	1323.6	1012.0	1191.8	1383.5	1705.8	842.9	668.5	605.9
87.5°	753.7	506.0	371.5	229.0	362.2	418.1	828.3	98.5	75.9	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)